

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2004/000201

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: E21B 43/12, F04D 29/04, F16C 39/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: E21B, F04D, F16C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 9117361 A1 (OY HIGH SPEED TECH LTD.), 14 November 1991 (14.11.1991), page 4, line 1 - line 22, figure, pos. 14 --	1-15
A	WO 03035225 A1 (KVAERNER EUREKA AS), 1 May 2003 (01.05.2003), claim 3, figure --	1-15
A	US 4969803 A (TURANSKYJ), 13 November 1990 (13.11.1990), column 1, line 53 - line 54, figure 1 --	1-15
A	US 5382141 A (STINESSEN), 17 January 1995 (17.01.1995), figure 1, abstract --	1-15

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

15 October 2004

Date of mailing of the international search report

21-10-2004

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2004/000201

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6288510 B1 (TOYAMA), 11 Sept 2001 (11.09.2001), column 2, line 58 - line 68 --	1-15
A	US 6310414 B1 (AGAH I ET AL), 30 October 2001 (30.10.2001), figure 1, abstract, pos. 56 --	1-15
A	US 6464469 B1 (GROB ET AL), 15 October 2002 (15.10.2002), figures 2,3, abstract -- -----	1-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

03/09/2004

International application No.

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WO	9117361	A1	14/11/1991	FI	902308 A	09/11/1991
WO	03035225	A1	01/05/2003	NO	20015199 A	25/04/2003
US	4969803	A	13/11/1990	DE	3729486 C	15/12/1988
				DE	3865602 A	21/11/1991
				EP	0305700 A,B	08/03/1989
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				NO	883910 A	06/03/1989
US	5382141	A	17/01/1995	AU	1265192 A	07/09/1992
				BR	9205601 A	26/07/1994
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				EP	0834020 A,B	08/04/1998
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				WO	9535447 A	28/12/1995
US	6464469	B1	15/10/2002	CA	2312081 A,C	16/01/2001
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				CN	1281101 A	24/01/2001
				DE	20011217 U	07/09/2000
				DE	20011219 U	05/10/2000
				EP	0990798 A	05/04/2000
				EP	1069313 A	17/01/2001
				EP	1074746 A	07/02/2001
				JP	2001041191 A	13/02/2001
				JP	2001041199 A	13/02/2001
				US	6390789 B	21/05/2002

PATENT COOPERATION TREATY

PCT

REC'D 02 MAY 2005

WIPO

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference E36959 HLA/J		FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/NO2004/000201	International filing date (day/month/year) 01.07.2004	Priority date (day/month/year) 02.07.2003	
International Patent Classification (IPC) or national classification and IPC E21B 43/12, F04D 29/04, F16C 39/06			
Applicant Kvaerner Oilfield Products AS et al			

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. ☐ (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
 - ☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand 21.01.2005	Date of completion of this report 31.03.2005
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Lena Nilsson / JAA Telephone No. +46 8 782 25 00

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/NO2004/000201

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the **elements** of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ the international application as originally filed/furnished
- ☐ the description:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked, "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-15</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-15</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-15</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

The claimed invention relates to a subsea gas compressor module and a method for controlling the pressure in such a subsea gas compressor module.

Documents cited in the International Search Report:

D1: WO, A1, 9117361
D2: WO, A1, 03035225
D3: US, A, 4969803
D4: US, A, 5382141
D5: US, B1, 6288510
D6: US, B1, 6310414
D7: US, B1, 6464469

The cited documents represent the general state of the art.
The invention defined in claims 1- 15 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed subsea gas compressor module and method for controlling the pressure in such a subsea gas compressor module. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-15 is novel and is considered to involve an inventive step. The invention is industrially applicable.